

The invention claimed is:

1. An insect screen comprising fibers, said insect screen having a total light transmission of at least 65% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
2. The insect screen according to claim 1, said insect screen having a total light transmission of at least 65% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.
3. The insect screen according to claim 1, said insect screen having a total light transmission of at least 65% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
4. The insect screen according to claim 1, said insect screen having a total light transmission of at least 65% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.
5. The insect screen according to claim 1, said insect screen having a total light transmission of at least 65% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
6. The insect screen of claim 1 wherein said fibers have a diameter equal to or less than about 0.007 inches.
7. The insect screen of claim 1 wherein said fibers have a diameter equal to or less than about 0.005 inches.
8. The insect screen of claim 1 wherein said fibers comprise a fluoropolymer.
9. The insect screen of claim 1 wherein said fibers comprise PVDF.
10. The insect screen of claim 1 further comprising a frame having a groove and spline construction, said fibers mounted in said frame.
11. The insect screen of claim 1 where said fibers are opaque.
12. The insect screen of claim 1 where said fibers are clear.
13. The insect screen of claim 1 where said fibers are dark in color.
14. The insect screen of claim 1 further comprising fibers in a warp and fill construction defining openings having a warp and fill dimension, at least one of said warp and fill dimensions being less than about 0.06 inches and the other of said warp and fill dimensions being larger than about 0.01 inches.

15. The insect screen according to claim 1, said insect screen having a total light transmission of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
16. The insect screen according to claim 1, said insect screen having a total light transmission of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.
17. The insect screen according to claim 1, said insect screen having a total light transmission of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
18. The insect screen according to claim 1, said insect screen having a total light transmission of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.
19. The insect screen according to claim 1, said insect screen having a total light transmission of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
20. The insect screen according to claim 1, said insect screen having a total light transmission of at least 75% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
21. The insect screen according to claim 1, said insect screen having a total light transmission of at least 75% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.
22. The insect screen according to claim 1, said insect screen having a total light transmission of at least 75% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
23. The insect screen according to claim 1, said insect screen having a total light transmission of at least 75% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.

24. The insect screen according to claim 1, said insect screen having a total light transmission of at least 75% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
25. The insect screen according to claim 1, said insect screen having a total light transmission of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
26. The insect screen according to claim 1, said insect screen having a total light transmission of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.
27. The insect screen according to claim 1, said insect screen having a total light transmission of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
28. The insect screen according to claim 1, said insect screen having a total light transmission of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.
29. The insect screen according to claim 1, said insect screen having a total light transmission of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
30. An insect screen comprising fibers, said insect screen having a visual clarity factor of at least 60% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 0.5 lbs.
31. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 60% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
32. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 60% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.
33. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 60% and being free of macroscopic permanent

- deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
34. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 60% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.
 35. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 60% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
 36. The insect screen of claim 30 wherein said fibers have a diameter equal to or less than about 0.007 inches.
 37. The insect screen of claim 30 wherein said fibers have a diameter equal to or less than about 0.005 inches.
 38. The insect screen of claim 30 wherein said fibers comprise a fluoropolymer.
 39. The insect screen of claim 30 wherein said fibers comprise PVDF.
 40. The insect screen of claim 30 further comprising a frame having a groove and spline construction, said fibers mounted in said frame.
 41. The insect screen of claim 30 where said fibers are opaque.
 42. The insect screen of claim 30 where said fibers are clear.
 43. The insect screen of claim 30 where said fibers are dark in color.
 44. The insect screen of claim 30 further comprising fibers in a warp and fill construction defining openings having a warp and fill dimension, at least one of said warp and fill dimensions being less than about 0.06 inches and the other of said warp and fill dimensions being larger than about 0.01 inches.
 45. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 0.5 lbs.
 46. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
 47. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.

48. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
49. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.
50. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 70% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
51. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 0.5 lbs.
52. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 1.0 lbs.
53. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 2.0 lbs.
54. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 3.0 lbs.
55. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 4.0 lbs.
56. The insect screen according to claim 30, said insect screen having a visual clarity factor of at least 80% and being free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least about 5.0 lbs.
57. An insect screen comprising:
 - a) a frame; and

- b) fibers comprising PVDF mounted in said frame, said fibers having a diameter equal to about 0.005 inches and disposed in a warp and fill construction defining openings having a warp and fill dimension, at least one of said warp and fill dimensions being less than about 0.06 inches and the other of said warp and fill dimensions being larger than about 0.01 inches,

wherein the insect screen has a total light transmission of at least 80% and is free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of about 5 lbs. or less.

58. An insect screen comprising:

- a) a frame; and
- b) fibers comprising PVDF mounted in said frame, said fibers having a diameter equal to about 0.005 inches and disposed in a warp and fill construction defining openings having a warp and fill dimension, at least one of said warp and fill dimensions being less than about 0.06 inches and the other of said warp and fill dimensions being larger than about 0.01 inches,

wherein the insect screen has a visual clarity factor of at least about 75% and is free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of about 5 lbs. or less.

59. A method of excluding insects from a space having an access comprising the steps of:

- a) providing a frame comprising a groove and spline construction; mounting fibers in said frame in a warp and fill construction defining openings having a warp and fill dimension, at least one of said warp and fill dimensions being less than about 0.06 inches and the other of said warp and fill dimensions being larger than about 0.01 inches, to form a screen, said fibers comprising PVDF and having a diameter equal to about 0.005 inches, whereby the screen has a total light transmission of at least about 65% and is free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of about 5 lbs. or less; and
 - b) covering the access with said screen,
- whereby the insects are prevented from entering the space.

60. A method of excluding insects from a space having an access comprising the steps of:
- a) providing a frame comprising a groove and spline construction;
 - b) mounting fibers in said frame in a warp and fill construction defining openings having a warp and fill dimension, at least one of said warp and fill dimensions being less than about 0.06 inches and the other of said warp and fill dimensions being larger than about 0.01 inches, to form a screen, said fibers comprising PVDF and having a diameter equal to about 0.005 inches, whereby the screen has a visual clarity factor of at least about 75% and is free of macroscopic permanent deformation when subjected to a blunt instrument deformation test of about 5.0 lbs. or less; and
 - c) covering the access with said screen,
- whereby the insects are prevented from entering the space.